

## Patent claims

1.

Circuit arrangement for the integration of EDP systems in the utilization of telephone systems connected to the public ISDN or Euro ISDN telephone network (1) consisting of

\* the telephone extensions (2; 11; 13) which are directly connected to the public ISDN or Euro ISDN telephone network (1) by a line (a) and an intelligent telephone system (3) and

\* an integration element (5) arranged between the intelligent telephone system (3) and the personal computers (4; 12; 14) and on the one hand receives signals via an SDLC or ISDN connection element (8) via line (b) from the public ISDN or Euro ISDN telephone network (1) via the intelligent telephone system (3) and sends back signals to the public ISDN or Euro ISDN telephone network (1) and on the other hand sends a data record assigned the appropriate information via the line (c), via a LAN (9) connected to the LAN server (10) by line (d) and via line (e) to the personal computers (4; 12; 14) and receives the data record from the personal computers (4; 12; 14) again, whereby the conversion of the signals into the data record and vice versa is carried out by the integration element (5) by a computing system (6), a software layer (7) and an SDLC or ISDN connection element (8) with an internal software.

2.

Circuit arrangement according to claim (1) distinguished by the speech and data communication between a caller via the public ISDN or Euro ISDN telephone network (1) and a competent party on one of the telephone extensions (2; 11; 13) with the respectively assigned personal computers (4; 12; 14) being sent to another competent party and back, and/or it being possible to hold the applied speech and data communication in conference where required together with the further competent party or also with all parties of the telephone extensions (2; 11; 13), after the respective competent party concerned has sent a data record assigned the appropriate information to the integration element (5) by operating the keyboard of the respectively assigned personal computer (4; 12; 14), the necessary signal leaving the integration element (5) is applied at the intelligent telephone system (3) and the connection to another telephone extension or to all telephone extensions is established; whereby the connection to every telephone extension simultaneously means immediate integration of the personal computer assigned to the telephone extension in the established speech and data communication.

3.3

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Circuit arrangement according to claims 1 and 2 distinguished by the fact that data can be transferred when a speech and data communication has been established by every competent party even during the conference and by all competent parties both to and from the caller to every participating competent party and between the competent parties with and without a caller.

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Circuit arrangement according to claims 1 to 3 distinguished by the fact that in addition to the existing speech and data communication a fax transmission can be made simultaneously or parallel between the respective competent party and the caller using the keyboard of the respective personal computer (4; 12; 14) by using the connection of the respective personal computer (4; 12; 14) with the public ISDN or Euro ISDN telephone network via the line (e) with the LAN (9) with inclusion of the LAN server (10) via the line (d), via the line (c) with the integration element (5) comprising the computing system (6), the software (7) and the SDLC or ISDN connection element (8) with an internal software and via the line (b) with the intelligent telephone system (3).

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